

1635

#17 / R.T.
7/19

Raw Sag.

TECH
CENTER
16000
2900

JUL 10 2002

RECEIVED
ENTERED

600

TECH CENTER 16000|2900

JUL 10 2002

RECEIVED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/502,984BDATE: 07/03/2002
TIME: 12:12:59Input Set : A:\A68126-1.app
Output Set: N:\CRF3\07032002\I502984B.raw

3 <110> APPLICANT: Luo, Peizhi
 5 <120> TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
 7 <130> FILE REFERENCE: A-68126-1/RFT/RMS/RMK
 9 <140> CURRENT APPLICATION NUMBER: 09/502,984B
 10 <141> CURRENT FILING DATE: 2000-02-11
 12 <150> PRIOR APPLICATION NUMBER: 60/120,009
 13 <151> PRIOR FILING DATE: 1999-02-11
 15 <150> PRIOR APPLICATION NUMBER: 60/131,674
 16 <151> PRIOR FILING DATE: 1999-04-29
 18 <160> NUMBER OF SEQ ID NOS: 37
 20 <170> SOFTWARE: PatentIn Ver. 2.1
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 225
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Homo sapiens
 27 <400> SEQUENCE: 1
 28 Ala Pro Pro Pro Asn Leu Pro Asp Pro Lys Phe Glu Ser Lys Ala Ala
 29 1 5 10 15
 31 Leu Leu Ala Ala Arg Gly Pro Glu Glu Leu Leu Cys Phe Thr Glu Arg
 32 20 25 30
 34 Leu Glu Asp Leu Val Cys Phe Trp Glu Glu Ala Ala Ser Ala Gly Val
 35 35 40 45
 37 Gly Pro Gly Asn Tyr Ser Phe Ser Tyr Gln Leu Glu Asp Glu Pro Trp
 38 50 55 60
 40 Lys Leu Cys Arg Leu His Gln Ala Pro Thr Ala Arg Gly Ala Val Arg
 41 65 70 75 80
 43 Phe Trp Cys Ser Leu Pro Thr Ala Asp Thr Ser Ser Phe Val Pro Leu
 44 85 90 95
 46 Glu Leu Arg Val Thr Ala Ala Ser Gly Ala Pro Arg Tyr His Arg Val
 47 100 105 110
 49 Ile His Ile Asn Glu Val Val Leu Leu Asp Ala Pro Val Gly Leu Val
 50 115 120 125
 52 Ala Arg Leu Ala Asp Glu Ser Gly His Val Val Leu Arg Trp Leu Pro
 53 130 135 140
 55 Pro Pro Glu Thr Pro Met Thr Ser His Ile Arg Tyr Glu Val Asp Val
 56 145 150 155 160
 58 Ser Ala Gly Asn Gly Ala Gly Ser Val Gln Arg Val Glu Ile Leu Glu
 59 165 170 175
 61 Gly Arg Thr Glu Cys Val Leu Ser Asn Leu Arg Gly Arg Thr Arg Tyr
 62 180 185 190
 64 Thr Phe Ala Val Arg Ala Arg Met Ala Glu Pro Ser Phe Gly Gly Phe
 65 195 200 205
 67 Trp Ser Ala Trp Ser Glu Pro Val Ser Leu Leu Thr Pro Ser Asp Leu

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/502,984B

DATE: 07/03/2002

TIME: 12:12:59

Input Set : A:\A68126-1.app

Output Set: N:\CRF3\07032002\I502984B.raw

68	210	215	220
70	Asp		
71	225		
74	<210> SEQ ID NO: 2		
75	<211> LENGTH: 211		
76	<212> TYPE: PRT		
77	<213> ORGANISM: Homo sapiens		
79	<400> SEQUENCE: 2		
80	Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu		
81	1 5 10 15		
83	Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp Glu		
84	20 25 30		
86	Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Tyr Ser Phe Ser Tyr		
87	35 40 45		
89	Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro		
90	50 55 60		
92	Thr Ala Arg Gly Ala Val Arg Phe Trp Cys Ser Leu Pro Thr Ala Asp		
93	65 70 75 80		
95	Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser Gly		
96	85 90 95		
98	Ala Pro Arg Tyr His Arg Val Ile His Ile Asn Glu Val Val Leu Leu		
99	100 105 110		
101	Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly His		
102	115 120 125		
104	Val Val Leu Arg Trp Leu Pro Pro Pro Glu Thr Pro Met Thr Ser His		
105	130 135 140		
107	Ile Arg Tyr Glu Val Asp Val Ser Ala Gly Asn Gly Ala Gly Ser Val		
108	145 150 155 160		
110	Gln Arg Val Glu Ile Leu Glu Gly Arg Thr Glu Cys Val Leu Ser Asn		
111	165 170 175		
113	Leu Arg Gly Arg Thr Arg Tyr Thr Phe Ala Val Arg Ala Arg Met Ala		
114	180 185 190		
116	Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val Ser		
117	195 200 205		
119	Leu Leu Thr		
120	210		
123	<210> SEQ ID NO: 3		
124	<211> LENGTH: 212		
125	<212> TYPE: PRT		
126	<213> ORGANISM: Artificial Sequence		
128	<220> FEATURE:		
129	<223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC		
131	<400> SEQUENCE: 3		
132	Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu		
133	1 5 10 15		
135	Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp Glu		
136	20 25 30		
138	Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Phe Ser Phe Ser Phe		
139	35 40 45		

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/502,984B

DATE: 07/03/2002
 TIME: 12:12:59

Input Set : A:\A68126-1.app
 Output Set: N:\CRF3\07032002\I502984B.raw

141 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
 142 50 55 60
 144 Thr Ala Arg Gly Ala Ile Arg Ile Phe Trp Cys Ser Leu Pro Thr Ala
 145 65 70 75 80
 147 Asp Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser
 148 85 90 95
 150 Gly Ala Pro Arg Phe His Arg Val Ile His Ile Asn Glu Val Val Leu
 151 100 105 110
 153 Leu Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly
 154 115 120 125
 156 His Val Val Leu Arg Trp Leu Pro Pro Glu Thr Pro Met Thr Ser
 157 130 135 140
 159 His Ile Arg Tyr Glu Val Asp Val Ser Ala Gly Asn Gly Ala Gly Ser
 160 145 150 155 160
 162 Val Gln Arg Val Glu Ile Leu Glu Gly Arg Thr Glu Cys Val Leu Ser
 163 165 170 175
 165 Asn Leu Arg Gly Arg Thr Arg Tyr Thr Phe Ala Val Arg Ala Arg Met
 166 180 185 190
 168 Ala Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val
 169 195 200 205
 171 Ser Leu Leu Thr
 172 210
 175 <210> SEQ ID NO: 4
 176 <211> LENGTH: 211
 177 <212> TYPE: PRT
 178 <213> ORGANISM: Artificial Sequence
 180 <220> FEATURE:
 181 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
 183 <400> SEQUENCE: 4
 184 Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu
 185 1 5 10 15
 187 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Phe Glu
 188 20 25 30
 190 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Phe Ser Phe Ser Phe
 191 35 40 45
 193 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
 194 50 55 60
 196 Thr Ala Arg Gly Ala Ile Arg Phe Trp Cys Ser Leu Pro Thr Ala Asp
 197 65 70 75 80
 199 Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Leu Thr Ala Ala Ser Gly
 200 85 90 95
 202 Ala Pro Arg Phe His Arg Val Ile His Ile Asn Glu Val Val Leu Leu
 203 100 105 110
 205 Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly His
 206 115 120 125
 208 Val Val Leu Arg Trp Leu Pro Pro Pro Glu Thr Pro Met Thr Ser His
 209 130 135 140
 211 Ile Arg Tyr Glu Val Asp Val Ser Ala Gly Asn Gly Ala Gly Ser Val
 212 145 150 155 160

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/502,984B

DATE: 07/03/2002

TIME: 12:12:59

Input Set : A:\A68126-1.app

Output Set: N:\CRF3\07032002\I502984B.raw

214 Gln Arg Val Glu Ile Leu Glu Gly Arg Thr Glu Cys Val Leu Ser Asn
 215 165 170 175
 217 Leu Arg Gly Arg Thr Arg Tyr Thr Phe Ala Val Arg Ala Arg Met Ala
 218 180 185 190
 220 Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val Ser
 221 195 200 205
 223 Leu Leu Thr
 224 210
 227 <210> SEQ ID NO: 5
 228 <211> LENGTH: 211
 229 <212> TYPE: PRT
 230 <213> ORGANISM: Artificial Sequence
 232 <220> FEATURE:
 233 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
 235 <400> SEQUENCE: 5
 236 Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu
 237 1 5 10 15
 239 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp Glu
 240 20 25 30
 242 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Tyr Ser Phe Ser Tyr
 243 35 40 45
 245 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
 246 50 55 60
 248 Thr Ala Arg Gly Ala Val Arg Phe Trp Cys Ser Leu Pro Thr Ala Asp
 249 65 70 75 80
 251 Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser Gly
 252 85 90 95
 254 Ala Pro Arg Tyr His Arg Val Ile His Ile Asn Glu Val Val Leu Leu
 255 100 105 110
 257 Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly His
 258 115 120 125
 260 Val Val Ile Arg Trp Leu Pro Pro Pro Glu Thr Pro Met Thr Ser His
 261 130 135 140
 263 Ile Arg Phe Glu Leu Asp Ile Ser Ala Gly Asn Gly Ala Gly Ser Val
 264 145 150 155 160
 266 Gln Arg Val Glu Leu Leu Glu Gly Arg Thr Glu Cys Val Leu Ser Asn
 267 165 170 175
 269 Leu Arg Gly Arg Thr Arg Ile Thr Ile Ala Val Arg Ala Arg Met Ala
 270 180 185 190
 272 Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val Ser
 273 195 200 205
 275 Leu Leu Thr
 276 210
 279 <210> SEQ ID NO: 6
 280 <211> LENGTH: 211
 281 <212> TYPE: PRT
 282 <213> ORGANISM: Artificial Sequence
 284 <220> FEATURE:
 285 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/502,984B

DATE: 07/03/2002
TIME: 12:12:59

Input Set : A:\A68126-1.app
Output Set: N:\CRF3\07032002\I502984B.raw

287 <400> SEQUENCE: 6
 288 Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu
 289 1 5 10 15
 291 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Phe Glu
 292 20 25 30
 294 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Phe Ser Phe Ser Phe
 295 35 40 45
 297 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
 298 50 55 60
 300 Thr Ala Arg Gly Ala Ile Arg Phe Trp Cys Ser Leu Pro Thr Ala Asp
 301 65 70 75 80
 303 Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Leu Thr Ala Ala Ser Gly
 304 85 90 95
 306 Ala Pro Arg Phe His Arg Val Ile His Ile Asn Glu Val Val Leu Leu
 307 100 105 110
 309 Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly His
 310 115 120 125
 312 Val Val Ile Arg Trp Leu Pro Pro Pro Glu Thr Pro Met Thr Ser His
 313 130 135 140
 315 Ile Arg Phe Glu Leu Asp Ile Ser Ala Gly Asn Gly Ala Gly Ser Val
 316 145 150 155 160
 318 Gln Arg Val Glu Leu Leu Glu Gly Arg Thr Glu Cys Val Leu Ser Asn
 319 165 170 175
 321 Leu Arg Gly Arg Thr Arg Ile Thr Ile Ala Val Arg Ala Arg Met Ala
 322 180 185 190
 324 Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val Ser
 325 195 200 205
 327 Leu Leu Thr
 328 210
 331 <210> SEQ ID NO: 7
 332 <211> LENGTH: 211
 333 <212> TYPE: PRT
 334 <213> ORGANISM: Artificial Sequence
 336 <220> FEATURE:
 337 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
 339 <400> SEQUENCE: 7
 340 Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu
 341 1 5 10 15
 343 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp Glu
 344 20 25 30
 346 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Phe Ser Phe Ser Phe
 347 35 40 45
 349 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
 350 50 55 60
 352 Thr Ala Arg Gly Ala Ile Arg Phe Trp Cys Ser Leu Pro Thr Ala Asp
 353 65 70 75 80
 355 Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser Gly
 356 85 90 95
 358 Ala Pro Arg Phe His Arg Val Ile His Ile Asn Glu Val Val Leu Leu

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/03/2002
PATENT APPLICATION: US/09/502,984B TIME: 12:13:00

Input Set : A:\A68126-1.app
Output Set: N:\CRF3\07032002\I502984B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:30; Xaa Pos. 3

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/502,984B

DATE: 07/03/2002

TIME: 12:13:00

Input Set : A:\A68126-1.app

Output Set: N:\CRF3\07032002\I502984B.raw

L:1542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0